

From: EOC Situation Unit
To: OLEM OEM ALL EOC Positions; OLEM Management Report; FEMA-NRCC-ohul; FEMA-NRCC-ohs; PCC Harvey
Subject: Hurricanes Irma and Maria Management Report September 26th
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Attachments: [pastelimage.png](#)
[Irma Management Report_9-26_Final.pdf](#)

Attached and copied below, please find the HQ EOC Management Report for EPA's Response to Hurricanes Irma and Maria. The HQ EOC has been issuing this report daily since September 3. As response efforts wind down the issuance frequency will be amended as appropriate.

If you have any questions, please contact the EOC manager at 202-250-8903 or the Deputy EOC Manager 202-250-8904. Thank you.

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HURRICANES IRMA AND MARIA MANAGEMENT REPORT

Information contained in this report reflects HQ and regional reporting from the most recently completed operational period as well as other reports provided by HQ, regional and interagency sources.

National Incident Management Objectives

Objective 1: Ensure that health and safety of the EPA responders is considered at all times.

Objective 2: Establish an incident management structure and processes employing the Incident Command System to enable effective overall management of the event with deployment of resources (staff and equipment) in a rapid, aggressive and well-coordinated manner.

Objective 3: Ensure prompt Review and Processing of Fuel Waiver requests.

Objective 4: Prepare for and provide Rapid Assessment of Industrial facilities as requested by the State or under EPA's statutory program responsibilities for CERCLA Superfund, RMP and FRP facilities. Working with our state partners, contact industrial sources within the impacted area to determine their operational status and determine what support can be provided with the monitoring of the start-up of industrial sources.

Objective 5: Prepare for and provide Rapid Assessment & Technical Assistance Drinking Water & Wastewater facilities as requested by the State or local government. EPA will support our state partners in contacting drinking water and waste water systems.

Objective 6: Prepare a Sustained Response Plan that outlines the resource and equipment needs for a long duration response.

Objective 7: Activate the Agency's Crisis Communication Plan to ensure effective and efficient coordination of all incident communications.

Objective 8: Encourage a collaborative federalism approach, where national, state and local governments interact cooperatively and collectively to solve common problems.

Objective 9: Begin Agency internal and external coordination under the National Disaster Recovery Framework regarding Recovery Support Functions in which EPA is likely to be involved.

Executive Summary

Region 2

- As of 02:00 ET on September 26th, Hurricane Maria was located 225 miles southeast of Cape Hatteras, NC with maximum sustained winds of 80 mph, with higher gusts. Hurricane Maria is moving north at 7 mph. A Tropical Storm Warning is in effect from Bogue Inlet, NC to the NC/VA border, to include the Albemarle and Pamlico Sounds. A Storm Surge Watch remains in effect from Cape Lookout to Duck, NC. Hurricane Maria is forecast to produce rainfall totals of one to two inches over the Outer Banks of NC.
- R2 continues to reach out and contact Caribbean Environmental Protection Division (CEPD) personnel post storm. The Director and Deputy director have been able to account for 47 of 56 employees based in PR. CID has made contact with only one of their two agents in PR.
- The National Disaster Response Force (NDRF) has not yet been activated in PR or USVI as of September 26th but EPA expects that it will be activated ASAP and all partners are engaged for awareness, planning and visibility.
- On September 26th, Department of Health and Human Services asked for EPA's support in conducting an environmental justice analysis on potential health issues related to water and wastewater systems in PR.

Region 4

- The current schedule for management reports from R4 is Monday, Wednesday, Friday. Updates from spot reports are provided but more substantial updates can be expected September 27th.

Regional Mission Assignments and Funding

EPA Region	Mission Assignment Number	Funding Amount	Description of Assignment
Region 2	VI-17090102-EPA-01	\$10,000	ESF-10 support of the FEMA's RRCC in Colts Neck, NJ
	4335DR-VI-EPA-01	\$100,000	Activate EPA to FEMA R2 RRC in Colts Neck, NJ to support FEMA
	4335DR-VI-EPA-02	\$508,000	To perform assessment of oil and hazardous materials releases, contaminated debris and other environmental events in USVI
	4335DR-VI-EPA-04	\$10,000,000	Conduct oil and hazardous materials field operations, including cleanup and disposal of hazardous materials and oil, and response to orphaned containers in order to mitigate actual and potential threats to public health and safety.
	4335DR-VI-EPA-06	\$2,000,000	EPA provides support preparing for site-specific platforms for situational awareness; environmental data management; operational deployment plans; documentation of assessment activities and results; resource and financial tracking, accountability and cost documentation.
	PR-17090102-EPA-01	\$20,000	Activate EPA to FEMA R2 RRC and other locations as necessary for PR (pre-landfall)
	3384EM-PR-EPA-01	\$75,000	Activate EPA to FEMA R2 RRCC, EPA REOC, State EOC, JFO, PDA, and RNA Teams and other coordination venues to support FEMA response in PR
	4336DR-PR-EPA-01	\$100,000	Activate EPA to FEMA R2 RRCC and other EOCs
	4336DR-PR-EPA-02	\$508,000	To perform assessment and reconnaissance of oil and hazardous materials releases, contaminated debris and storm impacted infrastructure which may pose a threat to federal responders as well as environmental

			harm in PR.
Region 4	4337DR-FL-EPA-05	\$90,000	Activation for appropriate EPA personnel to perform the functions of ESF 10 w/ RRCC, IOF, JFO, FEMA's Incident Management Assistance Team (IMAT), Preliminary Damage Assessment (PDA) Team, or other teams and locations, at the direction and coordination of FEMA.
	4337DR-FL-EPA-03	\$525,000	Activate Federal Hazardous Assessment Response Team w/resource support to conduct assessments at hazardous substances within R4
	4337DR-FL-EPA-04	\$9,000,000	Provide oil and hazardous material field response in support of FEMA response operations providing specialized expertise, conducting damage assessment of oil/hazmat waste impact evaluating hazards; and/or response, removal, or disposal of: actual and potential oil discharges, and releases of hazardous substances, pollutants and contaminants and remove pollutants from vessels in or upon navigable waters and adjoining shorelines.
	FL-17083101-EPA-01	\$35,000	Activate Environmental Protection Agency (EPA) ESF-10 support to the FEMA Region IV Regional Response Coordination Center (RRCC)
	3385EM-FL-COE-SAD-10	\$150,000	Federal Operations Support
Total		\$23,121,000.00	

Number of Regional Personnel Involved in Response

Type	R2 Personnel	R4 Personnel*	Total Regional Personnel
EPA	86	28	114
Contractors	26	6	32
Totals	112	34	146

*R4 personnel numbers last updated on September 25th.

- **Region 2 Significant Activities** On September 26th, The CEPD Guaynabo office is up and running on generator power and data, voice and cell phone services have been restored. The CEPD office in St. Thomas, USVI have been assessed to be in the same condition as post Hurricane Irma. The CEPD office in Vieques, PR has not been assessed post Hurricane Maria.
- **Water production at the St. Thomas Seven Seas resumed at max capacity on September 25th.** EPA liaison coordinating with USACE counterparts to deliver appropriate generator to Ocean Systems Laboratory for water quality testing; sampling and analysis will take a minimum of 24 hours once the St. Croix lab is running on generator power and is anticipated on September 27th.
 - St. Croix: Seven Seas water production plant is operational; three days emergency water supply available.
 - St. John: Potable water service is available throughout the island; four days emergency water supply available
 - St. Thomas: Potable water service restored to all communities in the east end of the island, and two districts; two days emergency water supply available.
- **EPA's Critical Water Assessment Team sampled nine public water facilities, results are expected September 26th; 20 additional water systems are scheduled for sampling on September 26th.**
- **EPA's six-person Critical Water Assessment Team arrived in St. Croix on September 25th to conduct drinking water and wastewater system assessments, sampling and field screening a drinking water facility, three hotels housing FEMA responders, and one ice-producing facility.**

Superfund and Oil Sites

Following Maria, R2 is re-assessing Superfund and oil sites in PR and USVI as part of R2's re-deployment plan. Re-assessment planning/implementation is ongoing. **Eighteen EPA Oil and Hazardous Materials Assessment personnel staging in Atlanta in preparation to leave for the USVI.**

- The table below provides a summary of the National Response Center (NRC) reports received in impacted areas:

NRC Report Tracking						
Location	Hazardous Materials		Spills/Discharges		Other	
	Open	Closed	Open	Closed	Open	Closed
Puerto Rico	0	0	0	3	0	0
U.S. Virgin Islands	0	2	0	1	0	0
Open means response status unknown or currently responding.						
Closed means response addressed by owner-operator or Federal, State, or local agency; no EPA assistance requested.						

SUPERFUND SITES (NPL, Removal and Oil)						
Site	Type	PUERTO RICO				
		Phase 1	Phase 2	Phase 3	All Phases Completed	
		Post-Storm Assessment	Site Inspection Needed	Inspected	Additional Response Action	
Arecibo Battery Recycling Corp.	Removal & NPL*	9/21	No	Yes	No	9/21

* These are Sites that have both, a Removal and Remedial program action. Only one assessment will be conducted per Site.

Regulated Facilities

On PR, USCG and EPA facility assessments commenced on September 25th; 20 of 22 petroleum facilities are available and initial assessments show limited damage with no evidence of major spills.

The RFT, in coordination with the Regional Emergency Operations Center (REOC), has provided compliance assistance to the Buckeye Yabucoa Dam, a PR facility that reported a spill into secondary containment. Starting September 23rd, the RFT and REOC started receiving NRC reports, and facility-provided information from the post-storm assessment.

- **Puerto Rico:**

Facility Type	Sites Identified	Pre-Maria Remote Assessment	Post Maria Remote Assessment	Post Maria Field Assessment	Follow-up Action Required
RMP	56	56*	0	0	0
FRP	22	22*	0	0	0
SPCC (non-FRP) ^	232 [#]	232 ^{#*}	0	0	0
Total	310 [#]	310 [#]	0	0	0

Facility Type	Sites Identified	Pre-Maria Assessment	Post Maria Assessment	Post Maria Field Assessment	Follow-up Action Required
RMP	1	1*	0	0	0
FRP	6	6*	1	0	1
SPCC (non-FRP) ^	57 [#]	57 ^{#*}	0	0	3
Total	64 [#]	64 [#]	1	0	4

• USVI:

*Pre-Hurricane email requested facilities to self-identify any pre-existing compromised conditions (construction at process areas, tank maintenance, etc). No facilities reported pre-existing compromised conditions.

^ Based on Post-Hurricane oil spill/chemical release/damage assessment email and phone calls. No facilities have reported oil spills, chemical releases, or upset/damage conditions that could lead to oil spill or chemical release.

This number reflects the number of known non-FRP SPCC facilities believed to be active.

Drinking Water / Wastewater (DW/WW) Assessments

In PR, 44% of population are without drinking water service. PR has an island wide boil water order. A list of all impacted DW/WW facilities is being prepared to facilitate distribution of generators and/or other repair equipment. PRASA labs are not functioning due to power and damage issues. PRASA has people to perform sampling but no labs. PRDOH has laboratory capability but needs supplies.

On VI

- On September 24th, an EPA water assessment and sampling team arrived in St. Croix. On September 25th, an EPA/DPNR team sampled nine water systems. Samples will be analyzed for bacteria and results will be available within 24 hours. St. Croix and St. Thomas water labs are waiting for generators. The REOC was able to have generators shipped on to the VI on September 23rd that will be used at labs.
- VI Department of Planning and Natural Resources (DPNR) asked EPA to conduct sampling, especially bacteria and analysis. In particular, they want any ice brought to the USVI analyzed for bacteria. On September 24th, an EPA sampling team arrived on St. Croix to assist with this request. DPNR and EPA created a priority list for drinking water system sampling. Starting September 26th, DPNR will start conducting assessment on the west part of the Island.
- On September 23rd, R2 issued an emergency order to FEMA and DOD to provide drinking water treatment services on VI. FEMA and DOD are working to deploy four treatment units to St. Croix. On September 24th, the R2 PIO issued a news release on the order. FEMA and DOD are working to deploy reverse osmosis units in St. Croix to deliver drinking water to the following areas:
 - Stoney Ground
 - Cane Bay
 - Altima
 - Cramer Park

On PR

- Starting September 26th, EPA CEPD employees are forming drinking water/wastewater assessment teams. Eight EPA employees will form two field teams with three employees to support logistics. For September 26th, four WWTPs are being assessed. Out of PRASA's total of 52 facilities, 9 are operational, 19 are non-operational, and 24 have an unknown operational status. CEPD will begin field inspections of plants near the San Juan Airport on September 26th. The status of the PRASA facilities as of September 26th is below.

Region	Area	Plant Name	Generator		Plant in Operation
			EGU	AEE	
EAST	CAGUAS	PA AGUAS BUENAS			X
	CAGUAS	PA CAGUAS	X		
	CAGUAS	PA PARCELAS BORINQUEN			X
	CAYEY	PA AIBONITO	X		
	CAYEY	PA BARRANQUITAS			X
	CAYEY	PA CAYEY	X		
	CAYEY	PA COMERIO	X		
	FAJARDO	PA CULEBRA			X
	FAJARDO	PA FAJARDO NUEVA			X
	FAJARDO	PA RIO GRANDE STATES			X
	FAJARDO	PA VIEQUES			X
	HUMACAO	PA HUMACAO	X		
	HUMACAO	PA YABUCOA	X		
	CAGUAS	PA FAJARDO			X
METRO	BAYAMON	PA BAYAMON			X
	CAROLINA	PA CAROLINA			X
	SAN JUAN	PA PUERTO NUEVO			X
NORTH	ARECIBO	PA ARECIBO	X		
	ARECIBO	PA CAMUY HATILLO	X		
	ARECIBO	PA JAYUYA NUEVA			X
	ARECIBO	PA LARES	X		
	ARECIBO	PA UTUADO NUEVA			X
	MANATI	PA BARCELONETA			X
	MANATI	PA CIALES			X
	MANATI	PA MOROVIS	X		
	MANATI	PA UNIBON	X		
	MANATI	PA VEGA BAJA			X
	TOA ALTA	PA COROZAL	X		
	TOA ALTA	PA DORADO			X
	TOA ALTA	PA NARANJITO			X
	TOA ALTA	PA TOA ALTA			X
WEST	AGUADILLA	PA AGUADA - AGUADILLA		X	In operation
	AGUADILLA	PA ISABELA	X		In operation
	AGUADILLA	PA SAN SEBASTIAN NEW		X	In operation
	AGUADILLA	PA SAN SEBASTIAN OLD		X	In operation
	MAYAGUEZ	PA LAS MARIAS		X	In operation

	MAYAGUEZ	PA MARICAO		X	In operation
	MAYAGUEZ	PA MAYAGUEZ		X	In operation
	SAN GERMAN	PA LAJAS		X	In operation
	SAN GERMAN	PA SAN GERMAN		X	In operation
SOUTH	COAMO	PA OROCOVIS			
	COAMO	PA SANTA ISABEL			
	GUAYAMA	PA GUAYAMA			
	GUAYAMA	PA MAUNABO			
	GUAYAMA	PA PATILLAS			
	PONCE	PA ADJUNTAS			
	PONCE	PA PONCE			
	YAUCO	PA GUANICA			
	YAUCO	PA GUAYANILLA			
	YAUCO	PA PEÑUELAS			
	YAUCO	PA YAUCO			

PR Air Monitoring Activities

On September 25th, EPA made contact with EQBs air quality program. The ambient air quality monitoring network was taken offline prior to Hurricane Maria landfall. Staff will perform an assessment on the status of the network once employees are able to return to the office, which may occur as early as September 26th.

Debris Recovery

- The VI debris work group is planning a debris burn and have been meeting with the USACE and FEMA EOC in St. John about air monitoring and sampling protocols associated with debris burns. No decision has been made on burn operations. EPA may also assist with medical waste issues related to potential closures of the St. Croix and St. John hospitals.
- The governor of USVI will announce a plan and public guidance for debris removal for the islands on September 27th.

Region 4 Significant Activities

- State of Florida's Emergency Final Order (OGC No. 17-0989, Page 8, Item 4) waives the 10-day requirement for prior notification for emergency demolition or emergency clean-up of asbestos containing materials resulting from Hurricane Irma.
- ESF-3 assessment and response operations in Key Largo have begun this week.

Superfund and Oil Sites

- EPA teams completed assessments of all the National Priorities List (NPL) sites in Florida, Alabama, Georgia and South Carolina. EPA identified minor issues at two sites:
 - Post and Lumber in Quincy, Florida:** The assessment team found a tear in the geo-membrane cap. The Site Remedial Program Manager is working with a contractor to assess the extent of the damage and whether a patch might be sufficient.
 - Terry Creek Site in Georgia:** The assessment team found minor storm damage to site security fencing and the underflow weir in the outfall ditch. The Responsible Party is working to acquire contractor resources to address these issues.

Drinking Water / Wastewater (DW/WW) Assessments

- The FDEP is developing plans for assessing the status of 3,561 non-community public water systems, and the plan was expected to be submitted to the USACE/R4 FAST on September 25th.

EPA Headquarters Significant Activities

The HQ EOC is activated to Level 1 in support of EPA Region 2 and Region 4 responses to Maria and Irma. The HQ EOC is coordinating on several levels with EPA R2, EPA R4, and other Federal agencies. The HQ EOC has deployed personnel to the FEMA NRCC to staff the ESF #10 desk. EPA Senior Management that comprise the Policy Coordination Committee (PCC) developed and issued senior management objectives that form the basis of field strategy and tactics in response to Maria and Irma.

Personnel	AO	OAR	OARM	OCFO	OCSPP	OECA	OEI	OGC	OLEM	ORD	OW	PIO	ATSDR	Totals
Employees	0	1	0	0	1	1	1	0	14	1	1	1	1	22
Contractors	0	0	0	0	0	0	0	0	2	0	0	0	0	2
Total	0	1	0	0	1	1	1	0	16	1	1	1	1	24

Other EPA Activities

Fuel Waivers: On September 21st, EPA received two requests from the State of Florida, requesting extension of waivers. EPA continues to review requests for fuel waivers as needed. Fuel waivers are not needed for PR or USVI.

OECA Civil/CID:

- On September 21st, OECA issued three NAAs, extending Florida's existing NAAs for truck loading, vapor recovery, and roof landing until October 6th. Additionally, they issued an extension to the waiver for red-dyed diesel fuel until October 6th.
- On September 10th, EPA issued a NAA letter for all Florida Power Plant facilities in response to the emergency request for Irma-related relief. EPA will exercise its discretion not to pursue enforcement for violations of Title V and/or NPDES permit requirements at electric generating units located in the State of Florida. The NAA terminates at 23:59 on September 26th.
- On September 13th, EPA issued a No Action Assurance letter to allow Duke Energy diesel reserves to be used for on-road response vehicles where the engines have been certified that this fuel will not cause damage. The NAA expired on September 22nd.
- On September 23rd, R2 issued an emergency order to FEMA and DOD to provide drinking water treatment services on the VI. FEMA and DOD are working to deploy four treatment units to St. Croix. On September 24th, the R2 PIO issued a news release on the order.
- On September 23rd, EPA announced that it will exercise enforcement discretion for mobile power generators being imported into the United States that will be used as emergency sources of power in Puerto Rico as a result of Hurricane Maria. This no action assurance covers mobile power generators that are imported for use in Puerto Rico until January 31, 2018.

Communications:

- R2, R4, and HQ activities related to Irma and Maria response efforts are available at: <http://www.epa.gov/hurricane-irma> and www.epa.gov/hurricane-maria, respectively.
- The HQ EOC Public Information Office continues to work with OLEM to develop fact sheets to inform people about issues related to returning after the storms. Topics covered include: household hazardous waste, construction debris, etc.
- On September 25th, the HQ PIO issued two news releases updating on recovery efforts for Hurricanes Irma and Maria, respectively.
- A PIO and a CIC are scheduled to deploy to PR as early as October 2nd.